

DPD-6446-59

23 September 1959

MEMORANDUM FOR: Director of Operations/DPD  
THROUGH : Chief, Developments Branch, DPD  
SUBJECT : Radio Proposal for Helio Model 500

1. Attached is a brochure of the communication and navigation radios proposed by Aircraft Radio Corporation for installation in the Helio Model 500. The proposal includes the estimated cost of installation in two (2) aircraft with the Helio Aircraft Corporation making the installation under the supervision of ARC.

2. It is anticipated that the navigational radio presentations will be installed on the instrument panel visible to both pilot and copilot, but primarily placed for ease of observation by the pilot. The radio controls will be mounted immediately below the center of the instrument panel for easy access by both pilot and copilot. Whether to be mounted vertically or at an angle will be determined at a mock-up presentation early in October. Primary considerations will be ease of observation, ease of operation, and lack of lag interference of the copilot in entering and leaving the aircraft, particularly in an emergency situation. The shock mounted transmitters and receivers will be mounted immediately aft of the cargo compartment. This equipment will be mounted high enough to be above the water line if future growth potential is utilized in expanding the aircraft capabilities to water operation.

3. It is desired that the Operations Branch indicate by indorsement to this memorandum whether or not the proposed radio equipment is adequate to fulfill the mission requirements of the Helio 500. It is further requested that the frequencies to be set in the secondary VHF communications system be selected in accordance with the mission requirements. It is recommended that one band be set to cover 137.88 mc and the second band to cover 142.02 mc. Each band would then be perturbed to include  $\pm$  1 mc from the basic frequency.

[Redacted]  
Major, USAF

DPD-OD/P:HMH/MPT/EMB

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25 YEAR RE-REVIEW

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